

L Number	Hits	Search Text	DB	Time stamp
1	90	SAC and plug	EPO; JPO; DERWENT; IBM_TDB USPAT;	2004/08/12 09:14
2	58	438/229,299,303,586,587,597.ccls. and SAC and plug	US-PGPUB	2004/08/12 09:15
3	225	438/229,299,303,586,587,597.ccls. and (SAC or aligned) and plug	USPAT;	2004/08/12 09:20
4	181	(438/229,299,303,586,587,597.ccls. and (SAC or aligned) and plug) and @ad<20010813	US-PGPUB USPAT;	2004/08/12 09:20
5	334	257/202,211,296,311,316.ccls. and (SAC or aligned) and plug	USPAT; US-PGPUB	2004/08/12 09:20
6	221	(257/202,211,296,311,316.ccls. and (SAC or aligned) and plug) and @ad<20010813	USPAT; US-PGPUB	2004/08/12 09:20
7	218	((257/202,211,296,311,316.ccls. and (SAC or aligned) and plug) and @ad<20010813) not ((438/229,299,303,586,587,597.ccls. and (SAC or aligned) and plug) and @ad<20010813)	USPAT; US-PGPUB	2004/08/12 09:21

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TITLE: Method for manufacturing a
semiconductor device is
capable of reducing parasitic
capacitance between an
interconnection and a contact plug

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PATENT-ASSIGNEE: HYNIX SEMICONDUCTOR INC [HYNIN]

PRIORITY-DATA: 2001KR-0088306 (December 29, 2001)

BAD DATE

PATENT-FAMILY:

PUB-NO	PUB-DATE	
LANGUAGE	PAGES	MAIN-IPC
KR 2003059445 A	July 10, 2003	N/A
001	H01L 021/28	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
KR2003059445A	N/A	
2001KR-0088306	December 29, 2001	

INT-CL (IPC): H01L021/28

ABSTRACTED-PUB-NO: KR2003059445A

BASIC-ABSTRACT:

NOVELTY - Method for manufacturing a semiconductor device
is capable of
reducing parasitic capacitance between an interconnection
and a contact plug.

DETAILED DESCRIPTION - Interconnections (20A) and a hard
mask (30) are
sequentially stacked on a semiconductor substrate (10).
The width of the

interconnection (20A) is reduced by under-cutting of the interconnection. An interlayer dielectric (40) is formed to fill the under-cut portion. A contact hole is formed by etching the interlayer dielectric (40) by using self aligned contact (SAC) processing. A contact plug (80) is formed by filling a conductive layer into the contact hole. At this time, the interlayer dielectric (40) remains at both sidewalls of the interconnection.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: METHOD MANUFACTURE SEMICONDUCTOR DEVICE
CAPABLE REDUCE PARASITIC
CAPACITANCE INTERCONNECT CONTACT PLUG

DERWENT-CLASS: L03 U11

CPI-CODES: L04-C07; L04-C12; L04-C13A; L04-C13B;

EPI-CODES: U11-C05B9B; U11-C05D1; U11-C05D3; U11-C05D4;
U11-C05E3; U11-C05F1;
U11-C05G2C;

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CPI Secondary Accession Numbers: C2003-246607

